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- Center for Molecular Genetics, University at  
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- Nucleic Acid Technologies Foundation
- Wadsworth Center for Laboratories &  
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- Albany Medical College

### THE ALBANY CONFERENCES

For information concerning this conference or future  
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The Albany Conferences  
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# **Molecular Mechanisms of DRUG RESISTANCE**

**1993 Albany Conference**  
**September 9-12, 1993**

## SCHEDULE

### *Scientific Sessions*

Scientific sessions will be held in the Guggenheim Pavilion auditorium on the following schedule:

Thursday	8:00 pm	Welcome; Opening Session
Friday	9:00 am	<i>Permeability &amp; membranes</i>
	3-5:00 pm	Poster Session
	7:30 pm	<i>Efflux</i>
Saturday	9:00 am	Keynote Address <i>Target modification/amplification</i>
	2:30 pm	T.B. Workshop
	7:30 pm	<i>Drug inactivation</i>
Sunday	8:30 am	<i>Novel drug design; overcoming resistance</i>

Activities or schedule changes will be announced at the beginning of each session.

### *Meals*

Meals will be served in the Weathervane Restaurant on the following schedule:

#### **Breakfast**

Friday, Saturday, Sunday ..... 7:30-8:30 am

#### **Lunch**

Friday Barbecue ..... 1:30 pm  
Saturday ..... 1:00 pm  
Sunday ..... Noon

#### **Dinner**

Thursday Buffet ..... 5:30-7:00 pm  
Friday, Saturday ..... 6:00 pm

Refreshments will be served in the Guggenheim Pavilion, mid-way through each morning session and during the poster session.

From 4-5:30 PM a cash bar with beer/wine/soda will be available on Huyck Porch; mixed drinks can be purchased in the Weathervane. In addition, beer/wine & soda are available in the Ford, Huyck, Stonecrop and Straus refrigerators on a pay-as-you-go honor basis.

Thursday Evening  
8:00 PM

Welcome from  
Nucleic Acid Technologies Foundation  
Carmen A. Mannella  
*Wadsworth Center for Laboratories & Research*

Overview  
John Galivan  
*Wadsworth Center for Laboratories & Research*

Introduction of Featured Speaker  
Harry W. Taber  
*Wadsworth Center for Laboratories & Research*

### SESSION I

H. Ronald Kaback, *Featured Speaker*  
*University of California, Los Angeles*  
**The Lactose Permease of *Escherichia coli*:**  
**A Paradigm for**  
**Membrane Transport Proteins**

Friday Morning

9:00 AM

Friday Evening

7:30 PM

**Permeability & Membranes**

Discussion Leader  
Wadsworth Center for Laboratories & Research

University of California, Berkeley

**Membrane Barriers and Antibiotic Resistance**

Nicola S. Carter

London School of Hygiene & Tropical Medicine

**Arsenical Resistance in the African  
Trypanosome**

Doris F. Cully

Merck and Company

**Characterization and Expression Cloning of  
an Avermectin and Glutamate-Sensitive  
Chloride Channel from  
*Caenorhabditis elegans***

Thomas R. Tritton

University of Vermont

**Signal Transduction and Drug Resistance**

POSTER SESSION

3-5:00 PM

**SESSION III**

**Efflux**

Discussion Leader  
Wadsworth Center for Laboratories & Research

Michael M. Gottesman

National Cancer Institute

**Mechanism of MDR1-Mediated  
Multidrug Resistance**

Stuart B. Levy

Tufts University Health Science Center

**Active Efflux Mechanisms for  
Antibiotic Resistance**

Sarah K. Volkman

Harvard School of Public Health

**Mechanisms of Resistance in  
Protozoan Parasites**

Saturday Morning

9:00 AM

Saturday Afternoon

2:30 PM

Julian Davies, *Keynote Speaker*  
*University of British Columbia*  
**Antibiotic Resistance as a  
Microbial Life-Style**

SESSION IV

**Target Modification/Amplification**

Michael H. Miller, *Discussion Leader*  
*Albany Medical College*

Alexander Tomasz  
*The Rockefeller University*

**Beta-Lactam Resistant Pneumococci and  
Staphylococci: Mechanisms and  
Molecular Epidemiology**

Sandra Handwerger  
*The Rockefeller University*

**Vancomycin Resistance in *Enterococcus***

Stephen M. Beverley  
*Harvard Medical School*

**Gene Amplification and Drug Resistance  
in *Leishmania***

TB WORKSHOP

**Drug Resistance in  
*Mycobacterium tuberculosis***

Harry W. Taber, *Discussion Leader*  
*Wadsworth Center for Laboratories & Research*

Douglas R. Smith  
*Collaborative Research, Inc.*

**Large-Scale Sequencing of  
Mycobacterial Genomes**

Julia M. Inamine  
*Colorado State University*

**Molecular Genetic Analysis of  
Ethambutol Resistance**

Asesh Bannerjee  
*Albert Einstein College of Medicine*

**A Novel *M. tuberculosis* Gene that Confers  
Resistance to Isoniazid and Ethionamide**

Douglas B. Young  
*Hammersmith Hospital*

**The Catalase-Peroxidase Gene and Isoniazid  
Resistance in *M. tuberculosis***

Hiroshi Nikaido, *Discussant*  
*University of California, Berkeley*

Saturday Evening

7:30 PM

Sunday Morning

8:30 AM

SESSION VI  
**Drug Inactivation**

John Gullivan, Discussion Leader  
*Wadsworth Center for Laboratories & Research*

Kenneth D. Fox  
*Fox Chase Cancer Center*

**Glutathione and Glutathione Transferases  
in Drug Resistance**

Eric Cundliffe  
*University of Leicester*  
**Resistance in Antibiotic-Producing  
Streptomyces**

James R. Knox  
*University of Connecticut*  
**3D Structure of Beta-Lactamases:  
Understanding Their  
Inhibition and Mutation**

SESSION VII  
**Novel Drug Design/Overcoming Resistance**

Janet Keithly, Discussion Leader  
*Wadsworth Center for Laboratories & Research*

John M. Whiteley  
*The Scripps Research Institute*

**Two Component Regulatory Switches and  
the Development of Drug Resistance**

Robert C. Jackson  
*Agouron Pharmaceutical Company*  
**Computational Approaches to Drug Design  
and Overcoming Drug Resistance**

Fred R. Opperdoes  
*International Institute of Cellular &  
Molecular Pathology*  
**Drug Design in Protozoa**

## ACKNOWLEDGEMENTS

### Organizing Committee

John Galivan

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### Special Recognition

Staff of the Rensselaerville Institute and  
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Poster art, Composition by Endre Lukoviczky

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## THE RENSSELAERVILLE CAMPUS

